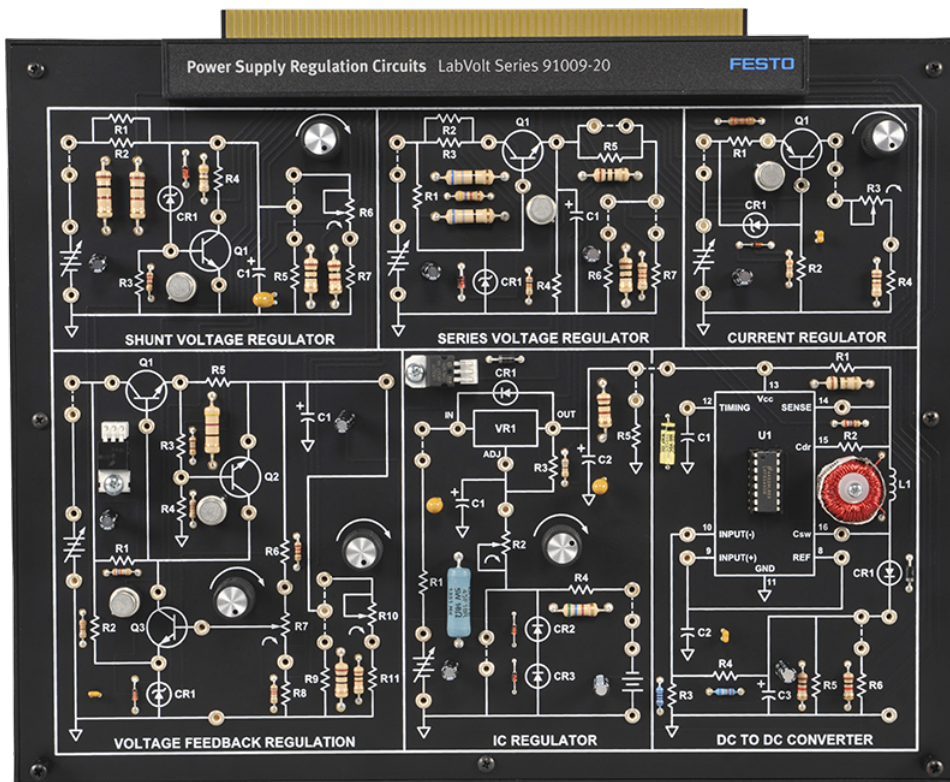


Power Supply Regulation Circuits FACET Board 580973 (91009-20)



LabVolt Series

Datasheet



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11/2024

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General Description

The Power Supply Regulation Circuits module is used to study power supply regulation circuits in a hands-on learning environment.

Through the study of the following six circuit blocks, the trainee will gain the skills necessary to be able to successfully troubleshoot the following power supply circuit malfunctions:

- Shunt Voltage Regulator
- Series Voltage Regulator
- Current Regulator
- Voltage Feedback Regulation
- IC Regulation
- DC to DC Converter

Topic Coverage

- Circuit Location and Identification and Power Supply Regulator Introduction
- Shunt and Series Regulators Operation, Line and Load Regulation
- Voltage Feedback Regulator Operation, Load Regulation
- Foldback Current Limiting Active Protection Circuit
- Current Regulator Operation, Line and Load Regulation
- Three-Pin IC Regulator Operation, Voltage Regulation, Current Regulation and Power Efficiency
- DC to DC Converter Operating Characteristics, Voltage Regulation and Efficiency
- Troubleshooting Basics and Troubleshooting Power Supply Regulation Circuits

Reflecting the commitment of Festo Didactic to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.

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